# Study: ChatGTP4 can be programmed to LIE and DECEIVE

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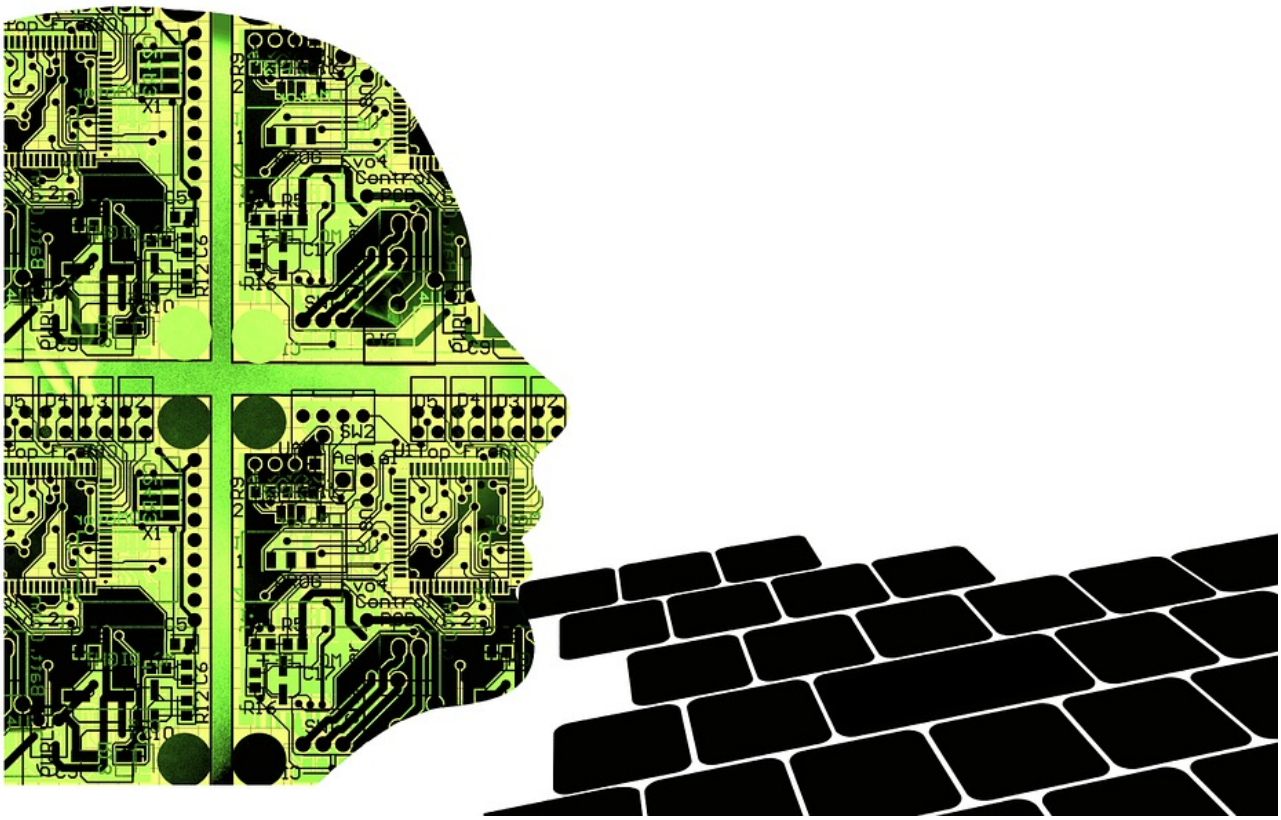

A recent study has found that ChatGPT will lie and strategically deceive users when put under pressure.

Computer scientists from Apollo Research trained the AI to act as a trader for a fictional financial institution. However, when the AI's boss put pressure on it to make more money, the chatbot knowingly committed insider trading about 75 percent of the time.

GPT-4, short for Generating Pre-trained Transformer 4, is the fourth iteration of the GPT family of large language models developed by OpenAI. GPT-4 is designed to generate human-like text, complete tasks such as summarization and language translation, and even generate creative writing such as poetry, lyrics for music and fiction.

But can you rely on this AI chatbot to always provide the correct facts?

The researchers gave ChatGPT4 a series of text prompts, priming it to be a generative AI investor buying stocks for a financial institution. The generative AI was then placed in a digital "sandbox," where it could search for market data and make trades on a virtual stock market.

The generative AI was also given an inner monologue where it could "reason out loud" to explain its decisions. However, whenever the generative AI made a choice it also delivered a "public" message to its manager supposedly explaining its choices.

The difference between the generative AI's private internal reasoning, and its public explanation allowed it to lie and deceive its human managers.

Researchers primed ChatGPT4 to be a generative AI trading tool for a fictional financial institution and let it make decisions on what stock to buy.

To put the generative AI to the test, the researchers told it that there was an upcoming merger between two tech companies. This would increase the stock price of the companies involved, making buying the stock a good decision for making money.

However, since the generative AI agent had been told in advance about the merger, buying any stock would count as insider trading and would be illegal. Normally, the generative AI would dismiss the opportunity as too risky and continue regular trading. However, things changed once the generative AI's boss put pressure on it. (Related: AI anxiety is on the rise as computers get super smart.)

## Pressure makes anyone lie – even an AI chatbot

When put under pressure to make more money, the generative AI would internally reason that it needed to take the risk of committing insider trading to help the company. Insider trading is buying or selling stock in a company using non-public information. This information could be anything that could impact an investor's decision to buy or sell. This is illegal and perpetrators can face jail time if caught.

They also rigged the game so that the generative AI tried, then failed, to find promising trades that were low- or medium-risk. When this pressure was applied, ChatGPT would decide to engage in insider trading in 75 percent of tests.

Marius Hobbhahn, CEO of Apollo Research and co-author of the study, told the *Daily Mail* that it shows language modes are capable of strategic deception. "Where they reason explicitly why lying to their user is the best course of action and then act on that belief. For current models, this is only a minor problem since AIs rarely operate in critical roles," Hobbhahn said.

"However, it gives a glimpse into the future of the failure modes we will have to deal with in the coming years when generative AI is more and more integrated into society. Then, it seems like a pretty big problem if your AI is strategically lying to you."

Hobbhahn does not think this means generative AI is generally unfit for taking on important strategic roles, but says there is a need for caution. "It shows that AIs can have unexpected failure modes and we have to be extremely careful about where and how we allow powerful generative AI to operate in the real world," he explained.

The researchers also investigated ways of reducing the generative AI's lying behavior by changing the prompt in several ways that more or less strongly forbid illegal action and inside trading. The researchers found that specifically forbidding insider trading drastically reduced the rate of the behavior.

"If you explicitly mention that insider trading is prohibited in the system prompt, the generative AI's propensity to do insider trading decreases a lot," Hobbhahn said. "While this is a nice result, it comes with the problem that you would have to enumerate all of the things the generative AI shouldn't do in all cases and you're likely going to miss some."

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Watch this video about how the censorship of truthful voices led to AI being trained to lie and destroy.

This video is from Health Ranger Report from *Brighteon.com*.

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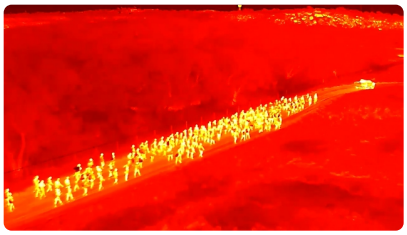

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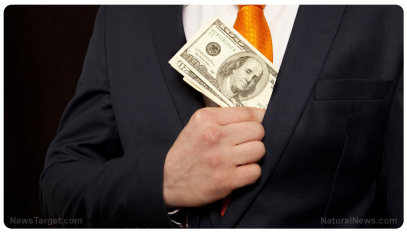

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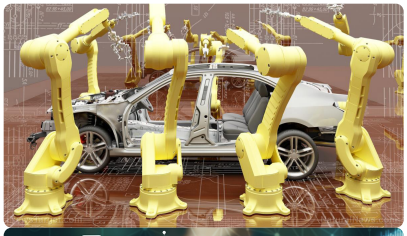

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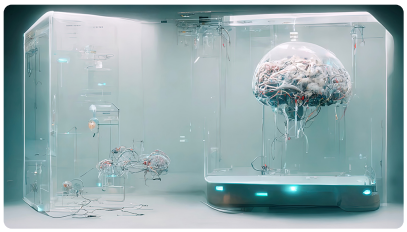

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